

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001583

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B01D 15/08, B01J 20/28, B01J 20/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B01D, B01J, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6528322 B1 (JAN CARLSSON ET AL), 4 March 2003 (04.03.2003), column 1, line 1 - line 8; column 2, line 51 - line 52; column 4, line 47 - line 61, column 6, line 40 - line 44; abstract --	1,3,10,47, 49,50,53
X	US 6426315 B1 (JAN BERSTROM ET AL), 30 July 2002 (30.07.2002), column 1, line 1 - column 2, line 45; column 3, line 46 - column 4, line 38; column 4, line 57 - column 5, line 25, column 6 - line 15 - line 26; examples, 1,3B	1-3,5-7, 9-14,16-19, 32-43,45-53
Y	--	33,37

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 January 2005

Date of mailing of the international search report

15-02-2005

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Lars Wallentin/ELY
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001583

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5561097 A (RAYMOND M. GLEASON ET AL), 1 October 1996 (01.10.1996), column 1, line 22 - line 26; column 3, line 58 - line 66; column 5, line 24 - line 35, column 2, line 23 - line 31. —	1,3,11-14, 16,18,19, 41-43,47-53
X	US 5977345 A (WILLIAM H. VELANDER ET AL), 2 November 1999 (02.11.1999) — -----	1-3,5,11-14, 16-19,47-53

INTERNATIONAL SEARCH REPORT
Information on patent family members

31/12/2004

International application No.

PCT/SE 2004/001583

US	6528322	B1	04/03/2003	AU	770488 B	26/02/2004
				AU	770715 B	26/02/2004
				AU	6331200 A	05/03/2001
				AU	6331300 A	05/03/2001
				CA	2381137 A	15/02/2001
				CA	2383436 A	15/02/2001
				EP	1198710 A	24/04/2002
				EP	1210594 A	05/06/2002
				JP	2003506717 T	18/02/2003
				JP	2003525426 T	26/08/2003
				SE	9902855 D	00/00/0000
				SE	9903970 D	00/00/0000
				WO	0111355 A	15/02/2001
				WO	0111363 A	15/02/2001
<hr/>						
US	6426315	B1	30/07/2002	AT	258707 T	15/02/2004
				AU	2799597 A	26/11/1997
				AU	6644198 A	22/09/1998
				DE	69727402 D,T	23/12/2004
				EP	0966488 A	29/12/1999
				EP	1018105 A,B	12/07/2000
				JP	2001516376 T	25/09/2001
				SE	9700768 D	00/00/0000
				US	6213440 B	10/04/2001
				WO	9839364 A	11/09/1998
				SE	9800386 A	12/08/1999
<hr/>						
US	5561097	A	01/10/1996	DE	69512772 D,T	16/11/2000
				EP	0757588 A,B	12/02/1997
				JP	3512809 B	31/03/2004
				JP	9512108 T	02/12/1997
				WO	9529754 A	09/11/1995
<hr/>						
US	5977345	A	02/11/1999	AU	2778299 A	20/09/1999
				WO	9944710 A	10/09/1999

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.